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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,921	11/21/2003	Michael Shu-Huan Wang	TI-34402 2399	
	7590 12/18/200 LUMENTS INCORPOI	EXAMINER		
PO BOX 6554	74, M/S 3999		MCDONALD, SHANTESE L	
DALLAS, TX 7	13203		ART UNIT	PAPER NUMBER
			3723	
			NOTIFICATION DATE	DELIVERY MODE
			12/18/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@ti.com uspto@dlemail.itg.ti.com

Office Action Occurrence		Application	Application No. Applicant(s)					
		10/718,92	11	WANG ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Shantese	L. McDonald	3723				
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the d	correspondence ad	ddress			
WHIC - Exter after - If NC - Failu Any r	CRTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILII is not not of time may be available under the provisions of 37 (SIX (6) MONTHS from the mailing date of this communicate period for reply is specified above, the maximum statutory to to reply within the set or extended period for reply will, by the pely received by the Office later than three months after the ped patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evi ion. period will apply and w y statute, cause the app	IIS COMMUNICATION ent, however, may a reply be tir II expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this of (35 U.S.C. § 133).	·			
Status								
1)	Responsive to communication(s) filed on	18 May 2007						
		This action is n	on-final					
3)	Since this application is in condition for a	-		osecution as to the	e merits is			
٥/ڪ	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)	Claim(s) 1-14 is/are pending in the applic	cation.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.							
	_							
· · _ ·	Claim(s) <u>12 and 14</u> is/are rejected.							
7) 	Claim(s) <u>13</u> is/are objected to.							
8)	8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9)□	The specification is objected to by the Exa	aminer.						
-			objected to by the	Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ເ	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	48)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheng et al. in view of Tolles.

Cheng et al. teaches a method for imparting relative motion to a polishing pad wherein the polishing pad is rotated about a center axis which is perpendicular to the polishing surface of the polishing pad, and dispensing a material to the most center portion of the polishing surface and including the axis, and further dispensing the material from the dispensing arm to the polishing pad all along an area from the circumference of the polishing pad to the axis, (col. 7, lines 14-45). Cheng et al. teaches all the limitations of the claims except for the material being a wash solution comprising de-ionized water. Tolles teaches dispensing a slurry or wash solution comprising de-ionized water on a polishing pad, (col. 8, lines 31-32). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the invention of Cheng et al. with the a wash solution comprising de-ionized water, as taught by Tolles in order to enhance the pad cleaning capabilities, and since it is known in the art that a slurry dispense arm is capable to dispense either a slurry or a wash solution.

Allowable Subject Matter

Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-11 are allowed.

Response to Arguments

Applicant's arguments filed 5/18/07 have been fully considered but they are not persuasive.

The Applicant argues that Cheng et al. reference dispenses the slurry in a half-circular path, and never provides the step of dispensing a wash material all along the surface to the most center portion while the pad is rotating. The Examiner disagrees. The Examiner notes that Cheng does teach dispensing the slurry in a half-circular pattern, (col.7, lines 23), but that the half circular motion is the motion of the dispensing wheel, 70, and that the dispensing wheel is rotating in a half circular pattern while the push arm is moving across the polishing pad, and therefore the slurry is dispensed uniformly from a center of the pad to the edge, (col. 6, lines 8-10). The Examiner also notes that this is performed while the pad is rotating, because Cheng teaches that the invention is an improvement over conventional CMP operations in which the slurry is dispensed while the pad is rotating, (col. 3, lines 27-30).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese L. McDonald whose telephone number is (571) 272-4486. The examiner can normally be reached on 8:00 a.m. - 4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3723

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.L.M. August 19, 2007

/JOSEPH J. HAIL, III/ Supervisory Patent Examiner, Art Unit 3723